Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

SBR No. 45/20-21 DATED 8-9-2020

EE/ELE/Y/BR.No. 45/20-21 Dt. 8-9-2020

No.1st & Final Bill

Date..... 2019

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-010-20-000015** -

Schedule Docket No. Head of Account : P – **P 1771** D.R.No.

Name of Work **Providing and installing LED Street lights Control Switches and wires in ward no 10 doddabomasandra vidyaranyapura sub division.**

.Name of Contractor and Full Address **M/s Chowdeshwari Electricals.**

Reference to Agreement No:EE(Ele)YZ/WO/000035 / 2019-20 Date:- 15/02/2020

Certified that the measurements were taken by me on 15/4/2020 and recorded of Pages 256901 to 0905 of measurement Book No. 2570/19-20 and that the work is satisfactorily executed.

Contractor

T.K.N. Baddy 7/4/20

Officer-in-charge of work

Certified that the measurement were taken by me on 15/4/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
Sub-Division Officer
BBMP, Bangalore

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill= 15,09,967=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher	IT 1% 15100=00
	No.....Dated.....S.D. No..... Amount	LWC 1% 15100=00
		CESS 1% 1510=00
	adjusted towards cash advance recovery of	Cost 1% 13482=00
	b) Payments Now made cost store or other material supplied.	Cost 1% 13482=00
	recovery of amount creditable to this/other work	deductions= 58,674=00
	Amount paid on this bill Cheque / Cash.	Cheque = 14,51,293=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Stamp

ಶೀರ್ಷಿಕೆ P1771, Zone works Pow

ರೂ: 15,09,967=00 ಮೊತ್ತ ಪಾವತಿಸಿದೆ

Paid by me by Cheque No.....Dated..... ರೂ: 14,51,293=00 ನಿವ್ವಳ ಮೊತ್ತಕ್ಕಾಗಿ

Cash Rs.....

Dated.....Initials of Officer making payme ರೂ: 58,674=00 ಮೊತ್ತಕ್ಕೆ ಚಲನ್

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಮಾ.ಅ(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No	Description	Unit
	Name Of Work:- Providing and installing LED Street lights Control Switches and wires in ward no 10 doddabomasandra vidyaranyapura sub division	
1	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs
2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs
3	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs
4	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 25 sqmm to 75 sqmm	Mtrs
5	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b)40-63 Amps SP, Group 'A'	Nos
6	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs
7	1.5 sqmm	Mtrs
8	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Nos
9	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Nos
10	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. b)50mm	Mtrs
11	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcms
12	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Nos
13	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I GI Strip. B)25X3mm	Nos
14	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16 Sq mm	Mtrs
15	Supplying and fixing Mouided Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos
16	**Thiristor based single/ Three phase smart street light control and monitoring system** Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos

evious Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		4295	107.83	463129.85	4295	463129.85	
		4295	8.29	35605.55	4295	35605.55	
		3597	59.90	215460.30	3597	215460.30	
		497	16.20	8051.40	497	8051.40	
		152	160.00	24320.00	152	24320.00	
		40	100.00	4000.00	40	4000.00	
		1800	5.00	9000.00	1800	9000.00	
		3	2000.00	6000.00	3	6000.00	
		9	150.00	1350.00	9	1350.00	
		58	200.00	11600.00	58	11600.00	
		90000	0.25	22500.00	90000	22500.00	
		59	180.00	10620.00	59	10620.00	
		10	50.00	500.00	10	500.00	
		3	50.00	150.00	3	150.00	
		3	4000.00	12000.00	3	12000.00	
		3	41000.00	123000.00	3	123000.00	

17	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos
18	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1:4:8base concrete,1:2:4pedestal concrete and etc coplete as per the data sheet enclosed	Nos
19	providing spiral earth electrode type earthing along with pole with charcoal, salt etc.(165+61=226)	Nos
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		936	5.00	4680.00	936	4680.00	
		155	3400.00	527000.00	155	527000.00	
		155	200.00	31000.00	155	31000.00	
				1509967.10		1509967.10	